Date: Mon, 18 Apr 94 04:30:26 PDT
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V94 #97
To: Ham-Space

Ham-Space Digest Mon, 18 Apr 94 Volume 94 : Issue 97

Today's Topics:

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

Date: 17 Apr 1994 09:15:18 -0700
From: network.ucsd.edu!not-for-mail@network.ucsd.edu
Subject: AMSAT via email??
To: ham-space@ucsd.edu

Could someone tell me if AMSAT/NA is reachable via email, and if so,
what is their address? I am unable to contact them via regular post as
I am at the South Pole in Antarctica, and will not have access to
regular mail until November.

In particular, I am trying to acquire a copy of the satellite tracking
program "InstantTrack" which I understand is distributed by AMSAT/NA.

Please email if possible, as it is not always easy to access the
newsgroups over the satellite systems.

Thanks for any help,

Brent Jones, KB1UK/KC4AAA
South Pole Communications
brent@fred.spole.gov

Date: 18 Apr 1994 00:19:52 GMT
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!uwm.edu!convex.csd.uwm.edu!
weening@network.ucsd.edu
Subject: Combining Satellite Receive Dishes in Phase Array
To: ham-space@ucsd.edu

This is a test of the body

Date: Mon, 18 Apr 1994 07:39:22 GMT
From: ihnp4.ucsd.edu!swrinde!emory!europa.eng.gtefsd.com!howland.reston.ans.net!
pipex!bbc!ant!boyer@network.ucsd.edu
Subject: Is there a definitive list of freqs for the weather sats?
To: ham-space@ucsd.edu

I am after a list of freqs for the low orbit weathe sats.

Can anyone help me?

john B

john.boyer@rd.eng.bbc.co.uk

Date: 18 Apr 1994 00:28:21 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!uwm.edu!convex.csd.uwm.edu!
weening@network.ucsd.edu
Subject: Satellite Receive Dishes Combined in Phase Array
To: ham-space@ucsd.edu

Is anyone aware of successful methods for combining two or more satellite receive
dishes
in phase array as a means of achieving receive gain comparable to a single
larger dish? Is there a Usenet Group concerned with the engineering aspects
of satellite broadcasting and receive technology? Thanks

Date: Sun, 17 Apr 1994 09:51:32 -0600
From: ihnp4.ucsd.edu!usc!sol.ctr.columbia.edu!newsxfer.itd.umich.edu!
nntp.cs.ubc.ca!alberta!adec23!ve6mgs!usenet@network.ucsd.edu
Subject: STS-59 Extension Day
To: ham-space@ucsd.edu

SB SAREX @ AMSAT $STS-59.023
STS-59 Extension Day

Greenbelt, MD, 4/17/94 at 15:40 UTC

The STS-59 mission has been extended by one day. Landing is now set for 15:53 UTC on Tuesday April 19. This extension day provides an additional day of SAREX operations for those interested in making a SAREX contact.

The official SAREX element set for today is still JSC-021. This element set was generated by Gil Carman, WA5NOM, of the Johnson Space Flight Center.

```
STS-59
1 23042U 94020A   94105.62622017  .00203357  11079-4  10947-3 0   213
2 23042  56.9933 234.1397 0007233 279.9940  80.0358 16.22652200  1014
```

```
Satellite: STS-59
Catalog number: 23042
Epoch time:      94105.62622017   =    (15 APR 94   15:01:45.42 UTC)
Element set:     021
Inclination:       56.9933 deg
RA of node:       234.1397 deg           Space Shuttle Flight STS-59
Eccentricity:     .0007233              Keplerian Element set JSC-021
Arg of perigee:   279.9940 deg          from NASA flight Day  7 vector
Mean anomaly:      80.0358 deg
Mean motion:   16.22652200 rev/day              G. L. Carman
Decay rate:    2.03357e-03 rev/day^2      NASA Johnson Space Center
Epoch rev:             101
Checksum:              271
```

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
/EX

Date: Mon, 18 Apr 1994 04:34:37 GMT
From: netcomsv!netcom.com!astroman@decwrl.dec.com
Subject: STS-59 Orbital State Vector Rev #141
To: ham-space@ucsd.edu

Vector format = 1017

```
Satellite Name:         STS-59
Catalog Number:         23042  94020A
Epoch Date/Time:        94108.09200031250
                        04/18/1994  02:12:28.827 UTC
ECI X:                   -13736949.086477 ft
M50 Y:                   -16065847.282498 ft
    Z:                     4471154.181108 ft
    Xdot:                     13703.96875 ft/s
    Ydot:                     -5940.96094 ft/s
    Zdot:                     20716.46875 ft/s
ndot/2 (drag):              0.00251143221 rev/day^2
nddt/6:                     1.11111E-05 rev/day^3
Bstar:                      9.24140E-05 1/Earth Radii
Elset #:                              29
Rev @ Epoch:              141.03924592732

MSDOS/PC software is available for conversion of
OSV to 2 Line Keplerian Elements via ftp to:
oak.oakland.edu:/pub/msdos/hamradio/v2l9331.zip
and the SIMTEL archives.

State Vectors courtesy Ken Ernandes N2WWD

SM

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Date: Sun, 17 Apr 1994 15:18:43 GMT
From: netcomsv!netcom.com!astroman@decwrl.dec.com
Subject: STS-59 Orbital State Vectors Rev #131
To: ham-space@ucsd.edu

Vector format = 117
Satellite Name:         STS-59
Catalog Number:         23042  94020A
Epoch Date/Time:        94107.50361474537
                        04/17/1994  12:05:12.314 UTC
EFG E:                        20812185.27 ft
    F:                         5501138.23 ft
    G:                         2054108.20 ft
    Edot:                      -1195.6730 ft/s
    Fdot:                      12497.4835 ft/s
    Gdot:                     -21268.3124 ft/s
ndot/2 (drag):              0.00222222220 rev/day^2
nddt/6:                     1.11111E-05 rev/day^3
Bstar:                      8.52332E-05 1/Earth Radii
Elset #:                              27
Rev @ Epoch:              131.48183495336
```

MSDOS/PC software is available for conversion of
OSV to 2 Line Keplerian Elements via ftp to:
oak.oakland.edu:/pub/msdos/hamradio/v2l9331.zip
and the SIMTEL archives.

State Vectors courtesy Ken Ernandes N2WWD

SM

Date: Sun, 17 Apr 1994 23:23:26 GMT
From: netcomsv!netcom.com!astroman@decwrl.dec.com
Subject: STS-59 Orbital State Vectors Rev #136
To: ham-space@ucsd.edu

```
Vector format = 117
Satellite Name:         STS-59
Catalog Number:         23042  94020A
Epoch Date/Time:        94107.79300026620
                        04/17/1994  19:01:55.223 UTC
EFG E:                       -11103871.23 ft
    F:                         8436401.26 ft
    G:                        16498661.41 ft
    Edot:                      -4098.3934 ft/s
    Fdot:                     -22668.5737 ft/s
    Gdot:                       8830.5125 ft/s
ndot/2 (drag):              0.00222222220 rev/day^2
nddt/6:                       1.11111E-05 rev/day^3
Bstar:                        8.31548E-05 1/Earth Radii
Elset #:                               28
Rev @ Epoch:              136.18231622566
```

MSDOS/PC software is available for conversion of
OSV to 2 Line Keplerian Elements via ftp to:
oak.oakland.edu:/pub/msdos/hamradio/v2l9331.zip
and the SIMTEL archives.

State Vectors courtesy Ken Ernandes N2WWD

SM

End of Ham-Space Digest V94 #97
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